



solutions for industrial
marking applications

Lasonall *

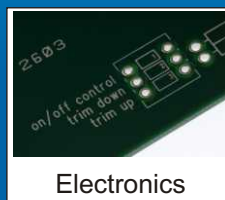


Lasonall Green 532nm

diode pumped marking laser



Plastics



Electronics



Plastics



Medical

www.permanentmarking.com

The **Lasonall Green** originates from the product range of the Lasonall family and is based on the mechanical optical architecture of Second Harmonic Generation (SHG) **Intracavity Technology**.

The **Intracavity Technology** provides an extensive life of the LBO non-linear crystal together with high beam quality and stability that is ideally used for applications where a short laser wavelength (532nm) is more suitable in contrast to the IR (1064nm) laser wavelength.

The result is an innovative maintenance free laser solution with high average power and economical operation.

The Lasonall Green can be used with scanning heads for different industrial applications such as processing of plastics, changing surface color for legible marks without burning, and ablation of thin films with no alteration of the substrate material.

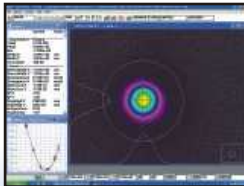
All the advantages of the Lasonall platform (stability, reliability and air cooling) have been maintained with the Lasonall Green. The Lasonall Green can be easily integrated into production environments for a wide variety of applications.

Laser Model	Lasonall Green
Laser Medium / Wavelength	L.B.O / 532 nm
Nominal Power	12W +5% (@ laser aperture)
Beam Quality	M2 < 1.2
Power Stability (8 h)	<1.5% rms
Pulse width	12 ns (@20 kHz)
Pulse Energy / Peak power	Max. 400 uJ / 33 kW
Frequency	20-100 kHz
Aiming beam	Class 2M Red Diode laser; 635 +-5nm; 3 mW
Power Supply	AC 90-240 V / 50-60 Hz/ 1 Ph / 700 W
Cooling (TEC air cooled)	Heat load 240 W (818 btu/h)
Operating Temperature	+10 to +35 C (46 to 95 F)

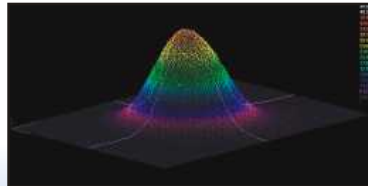


Lenses	Specifications
F-Theta 100 mm	Focal width: 100 mm Marking Field: 50 x 50 mm
F-Theta 160 mm	Focal width: 160 mm Marking Field: 110 x 110 mm
F-Theta 254 mm	Focal width: 254 mm Marking Field: 180 x 180 mm
F-Theta 330 mm	Focal width: 330 mm Marking Field: 215x 215mm

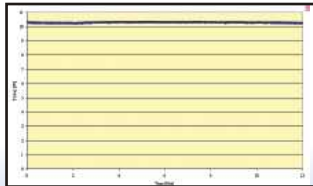
SMALL SPOT SIZE



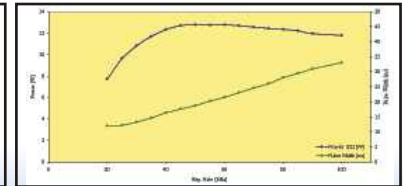
NEAR PERFECT SPOT QUALITY



EXCELLENT POWER STABILITY



POWER AND PULSEWIDTH



Ostling follows a policy of continuous product improvement. Specifications are subject to change without notice.

Lasonall Green is a class 4 laser product.

This Class 4 laser component is offered to qualified manufacturers who shall provide interlocks, indicators and other appropriate safety features in full compliance with 21 CFR 1040 and/or other applicable national and local regulations.

Laser interaction with organic or inorganic material can cause TOXIC FUMES / PARTICLES.

